

=====

Sequence Listing was accepted.

If you need help call the Patent Electronic Business Center at (866)  
217-9197 (toll free).

Reviewer: markspencer

Timestamp: Wed Sep 12 12:27:58 EDT 2007

=====

Application No: 10574717

Version No: 1.0

**Input Set:****Output Set:****Started:** 2007-08-30 19:40:31.053**Finished:** 2007-08-30 19:40:35.452**Elapsed:** 0 hr(s) 0 min(s) 4 sec(s) 399 ms**Total Warnings:** 1144**Total Errors:** 0**No. of SeqIDs Defined:** 1144**Actual SeqID Count:** 1144

Error code	Error Description
W 213	Artificial or Unknown found in <213> in SEQ ID (1)
W 213	Artificial or Unknown found in <213> in SEQ ID (2)
W 213	Artificial or Unknown found in <213> in SEQ ID (3)
W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
W 213	Artificial or Unknown found in <213> in SEQ ID (9)
W 213	Artificial or Unknown found in <213> in SEQ ID (10)
W 213	Artificial or Unknown found in <213> in SEQ ID (11)
W 213	Artificial or Unknown found in <213> in SEQ ID (12)
W 213	Artificial or Unknown found in <213> in SEQ ID (13)
W 213	Artificial or Unknown found in <213> in SEQ ID (14)
W 213	Artificial or Unknown found in <213> in SEQ ID (15)
W 213	Artificial or Unknown found in <213> in SEQ ID (16)
W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

**Input Set:**

**Output Set:**

**Started:** 2007-08-30 19:40:31.053  
**Finished:** 2007-08-30 19:40:35.452  
**Elapsed:** 0 hr(s) 0 min(s) 4 sec(s) 399 ms  
**Total Warnings:** 1144  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 1144  
**Actual SeqID Count:** 1144

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

# SEQUENCE LISTING

<110> Vermicon AG

<120> Method for the specific rapid detection of beverage-spoiling microorganisms

<130> V 10014 PCT

<140> 10574717

<141> 2007-08-30

<150> PCT/

<151> 2004-09-23

<150> DE 103 44 057.7

<151> 2003-09-23

<160> 1144

<170> PatentIn version 3.3

<210> 1

<211> 21

<212> DNA

<213> Artificial

<220>

<223> oligonucleotide

<400> 1

gtttgaccag attctccgct c 21

<210> 2

<211> 22

<212> DNA

<213> Artificial

<220>

<223> oligonucleotide

<400> 2

gtttgaccag attttccgct ct 22

<210> 3

<211> 22

<212> DNA

<213> Artificial

<220>

<223> oligonucleotide

<400> 3

gtttgaccaa attttccgct ct 22

<210> 4

<211> 22

<212> DNA

<213> Artificial

<220>

<223> oligonucleotide

<400> 4

gtttgtccaa attctccgct ct 22

<210> 5

<211> 18

<212> DNA

<213> Artificial

<220>

<223> oligonucleotide

<400> 5

cccggtcgaa ttaaaacc 18

<210> 6

<211> 18

<212> DNA

<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	6	
gcccggtcga	attaaaac	18
<210>	7	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	7	
ggcccggtcg	aattaaaa	18
<210>	8	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	8	
aggcccggtc	gaattaaa	18
<210>	9	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	9	
aaggcccggt	cgaattaa	18
<210>	10	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	10	
atattcgagc	gaaacgcc	18
<210>	11	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	11	
aaagatccgg	accggccg	18
<210>	12	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	12	
ggaaagatcc	ggaccggc	18
<210>	13	
<211>	18	
<212>	DNA	
<213>	Artificial	

<220>  
 <223> oligonucleotide  
 <400> 13  
 gaaagatccg gaccggcc 18  
 <210> 14  
 <211> 18  
 <212> DNA  
 <213> Artificial  
 <220>  
 <223> oligonucleotide  
 <400> 14  
 gatccggacc ggccgacc 18  
 <210> 15  
 <211> 18  
 <212> DNA  
 <213> Artificial  
 <220>  
 <223> oligonucleotide  
 <400> 15  
 agatccggac cggccgac 18  
 <210> 16  
 <211> 18  
 <212> DNA  
 <213> Artificial  
 <220>  
 <223> oligonucleotide  
 <400> 16  
 aagatccgga ccggccga 18  
 <210> 17  
 <211> 18  
 <212> DNA  
 <213> Artificial  
 <220>  
 <223> oligonucleotide  
 <400> 17  
 gaaaggcccg gtcgaatt 18  
 <210> 18  
 <211> 18  
 <212> DNA  
 <213> Artificial  
 <220>  
 <223> oligonucleotide  
 <400> 18  
 aaaggcccg tcgaatta 18  
 <210> 19  
 <211> 18  
 <212> DNA  
 <213> Artificial  
 <220>  
 <223> oligonucleotide  
 <400> 19  
 ggaaaggccc ggtcgaat 18  
 <210> 20  
 <211> 18  
 <212> DNA  
 <213> Artificial  
 <220>

<223> oligonucleotide	
<400> 20	
aggaaaggcc cggtcgaa	18
<210> 21	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 21	
aaggaaaggc ccggtcga	18
<210> 22	
<211> 20	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 22	
atagcactgg gatcctcgcc	20
<210> 23	
<211> 20	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 23	
ccagccccaa agttaccttc	20
<210> 24	
<211> 20	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 24	
tccttgacgt aaagtcgcag	20
<210> 25	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 25	
ggaagaaaac cagtacgc	18
<210> 26	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 26	
ccggtcggaa gaaaacca	18
<210> 27	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	

<400> 27	
gaagaaaacc agtacgcg	18
<210> 28	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 28	
cccggtcgga agaaaacc	18
<210> 29	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 29	
cggtcggaag aaaaccag	18
<210> 30	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 30	
ggtcggaaga aaaccagt	18
<210> 31	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 31	
aagaaaacca gtacgcg	18
<210> 32	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 32	
gtacgcgga aaatccg	18
<210> 33	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 33	
agtacgcgga aaaatccg	18
<210> 34	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 34	



gcggaaaaaat ccggaccg	18
<210> 35	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 35	
cggaagaaaa ccagtacg	18
<210> 36	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 36	
gcccgggtcgg aagaaaac	18
<210> 37	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 37	
cgcggaaaaa tccggacc	18
<210> 38	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 38	
cagtacgcgg aaaaatcc	18
<210> 39	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 39	
agaaaaccag tacgcgga	18
<210> 40	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 40	
ggcccgggtcg gaagaaaa	18
<210> 41	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 41	
ataaacacca cccgatcc	18

<210>	42	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	42	
	acgcggaaaa atccggac	18
<210>	43	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	43	
	gagaggcccg gtcggaag	18
<210>	44	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	44	
	agaggcccg tcggaaga	18
<210>	45	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	45	
	gaggcccgt cggaagaa	18
<210>	46	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	46	
	aggcccgtc ggaagaaa	18
<210>	47	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	47	
	ccgagtgggt cagtaaat	18
<210>	48	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	48	
	ccagtacgcg gaaaaatc	18
<210>	49	

<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	49	
taaacaccac	cgatccc	18
<210>	50	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	50	
ggagaggccc	ggtcggaa	18
<210>	51	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	51	
gaaaaccagt	acgcggaa	18
<210>	52	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	52	
tacgcggaaa	aatccgga	18
<210>	53	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	53	
ggccacaggg	acccaggg	18
<210>	54	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	54	
tcaccaaggg	ccacaggg	18
<210>	55	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	55	
gggccacagg	gacccagg	18
<210>	56	
<211>	18	

<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	56	
	ttcaccaagg gccacagg	18
<210>	57	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	57	
	acagggaccc agggctag	18
<210>	58	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	58	
	agggccacag ggacccag	18
<210>	59	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	59	
	gttcaccaag ggccacag	18
<210>	60	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	60	
	gccacaggga cccagggc	18
<210>	61	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	61	
	cagggaccca gggctagc	18
<210>	62	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	62	
	agggaccag ggctagcc	18
<210>	63	
<211>	18	
<212>	DNA	

<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 63	
accaagggcc acagggac	18
<210> 64	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 64	
ccacagggac ccagggct	18
<210> 65	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 65	
cacagggacc cagggcta	18
<210> 66	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 66	
caccaagggc cacagga	18
<210> 67	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 67	
gggaccagg gctagcca	18
<210> 68	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 68	
aggagaggcc cggtcgga	18
<210> 69	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 69	
aaggagaggc ccggtcgg	18
<210> 70	
<211> 18	
<212> DNA	
<213> Artificial	

<220>  
 <223> oligonucleotide  
 <400> 70  
 gaaggagagg cccggtcg 18  
 <210> 71  
 <211> 18  
 <212> DNA  
 <213> Artificial  
 <220>  
 <223> oligonucleotide  
 <400> 71  
 agggctagcc agaaggag 18  
 <210> 72  
 <211> 18  
 <212> DNA  
 <213> Artificial  
 <220>  
 <223> oligonucleotide  
 <400> 72  
 gggctagcca gaaggaga 18  
 <210> 73  
 <211> 18  
 <212> DNA  
 <213> Artificial  
 <220>  
 <223> oligonucleotide  
 <400> 73  
 agaaggagag gcccggtc 18  
 <210> 74  
 <211> 18  
 <212> DNA  
 <213> Artificial  
 <220>  
 <223> oligonucleotide  
 <400> 74  
 caagggccac agggaccc 18  
 <210> 75  
 <211> 18  
 <212> DNA  
 <213> Artificial  
 <220>  
 <223> oligonucleotide  
 <400> 75  
 ccaaggcca cagggacc 18  
 <210> 76  
 <211> 18  
 <212> DNA  
 <213> Artificial  
 <220>  
 <223> oligonucleotide  
 <400> 76  
 gtcggaaaaa ccagtacg 18  
 <210> 77  
 <211> 18  
 <212> DNA  
 <213> Artificial  
 <220>

<223> oligonucleotide	
<400> 77	
gcccggtcgg aaaaacca	18
<210> 78	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 78	
ccggtcggaa aaaccagt	18
<210> 79	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 79	
cccggtcgga aaaaccag	18
<210> 80	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 80	
tcggaaaaac cagtacgc	18
<210> 81	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 81	
cggaaaaacc agtacgcg	18
<210> 82	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 82	
ggaaaaacca gtacgcgg	18
<210> 83	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 83	
gtacgcggaa aaatccgg	18
<210> 84	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	

<400> 84	
agtacgcgga aaaatccg	18
<210> 85	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 85	
gcggaaaaat ccggaccg	18
<210> 86	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 86	
ggtcggaaaa accagtac	18
<210> 87	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 87	
actcctagtgt gtgccctt	18
<210> 88	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 88	
gtccactcc tagtggtg	18
<210> 89	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 89	
cactcctagt ggtgccct	18
<210> 90	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 90	
ctccactcct agtggtgc	18
<210> 91	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 91	



tccactccta gtggtgcc	18
<210> 92	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 92	
ccactcctag tgggtgcc	18
<210> 93	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 93	
ggctccactc ctagtggt	18
<210> 94	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 94	
aggctccact cctagtgg	18
<210> 95	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 95	
ggcccggtcg gaaaaacc	18
<210> 96	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 96	
gaaaaaccag tacgcgga	18
<210> 97	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 97	
cgcggaaaaa tccggacc	18
<210> 98	
<211> 18	
<212> DNA	
<213> Artificial	
<220>	
<223> oligonucleotide	
<400> 98	
cagtacgcgg aaaaatcc	18

<210>	99	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	99	
	cggtcggaaa aaccagta	18
<210>	100	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	100	
	aaggcccgggt cggaaaaa	18
<210>	101	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	101	
	caggctccac tcttagtg	18
<210>	102	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	102	
	ctcctagtgg tgcccttc	18
<210>	103	
<211>	18	
<212>	DNA	
<213>	Artificial	
<220>		
<223>	oligonucleotide	
<400>	103	
	tcctagtggg gcccttcc	18
<210>	104	